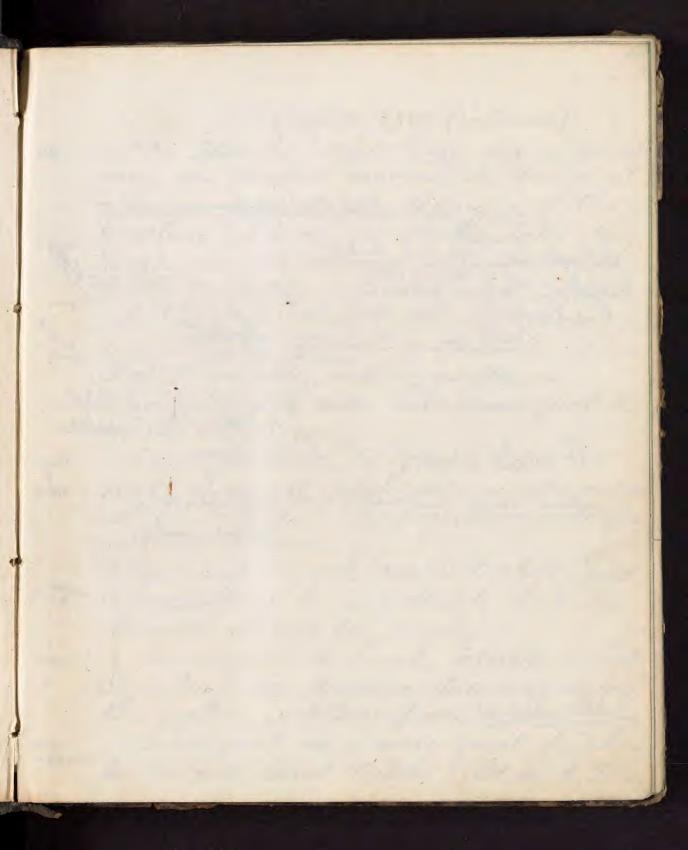


Important

Lectures Hygiene. Vol. III. ah 95



(From vol. II) Men of great intellectual performance with delivate or imporfest health: Rich Bretzer , J. Stund Will, Charles R. parrows Treat men with vigorous boolists: Alexander, Casar, Napolen, Wellington, Walter Lott, Lord Palmerston, Gurer, Mitallon, , A. Hetmbold, agasson. The rule is with the latter class. ellens sava most readily duells, & effectively acts, in corpore savo.

Lecture XXVII (continued) The air is important. In a warm room, we cannot concentrate the mind. This is noticed in Changes of tem-A PLANTE. perature. In the fa Platte states, the people are quarrelsome when the North wind prevails. Sinces - Languet of Tropies. In the American climate, there is a peculiarly exciting quality. This is seen in the insang asylums. Foreigners who come here are affected in the same way. The importance of food & drink is FOOD great. If we eat much, our minds will DRINK not be brilliant. Indigestion interferes with the brain. In mental work, concentrated food CONCENTRATION is necessary. It is probably that in America, we eat too much In regard to drink, alcohol is bad. ALCOHOL Stimulants are disadvantageous unless the sixtem is below par. Dink beer, think Beer Some great men were great drinkers; for instance, Danl. Webster & Edgar A. Pol.

See 619 Average Age at Death ANERAGE 17 DEATH 152 French Lavants 69 yrs. Honord University Graduates 58 British Poets 56 Celebrated Preachers 69 Statesmen 70 Victims of Over, worked Brains anatomist 40 SIMITSIL OVER-WORKED Beelard BRAINS. minister of state Périer -Romilly Castleneagh Chatterton poet Laman Blanchard Buckland geologist Hugh Miller Admiral Fitzroy sanitarian A. W. Robertson breacher Forcan Et Scientist

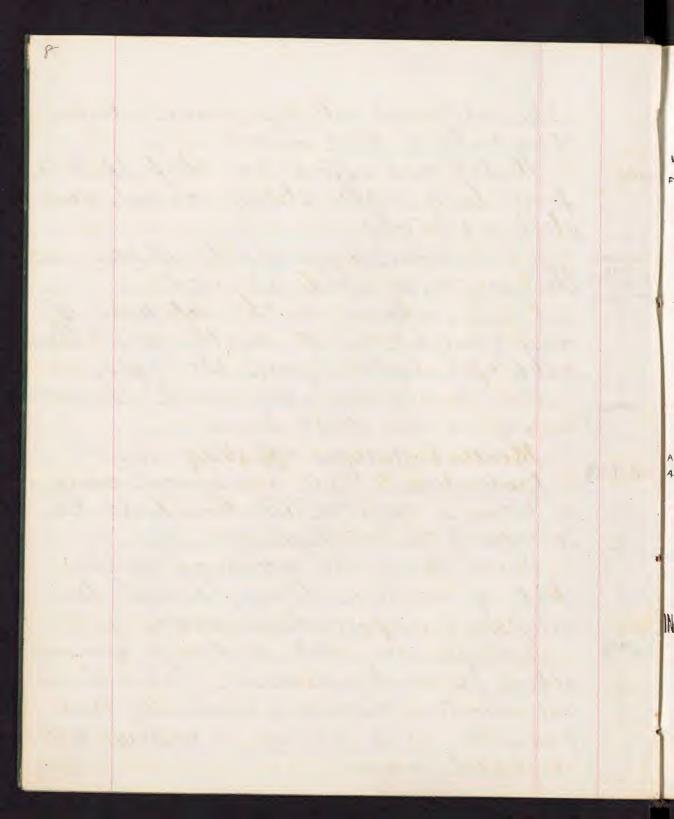
They would have been better without it. Burke never drank; nor known mor Whittier. Chercise is necessary. Lecture XXVIII. Sleep is necessary especially after SLEEP. brain work. If we had not brains we would require no sleep. It is most necessary in early life. An infant, sleeps is its lime. Falled prematurely born, sleeps nearly all the time. Children under ochre, regriere 10 hours in 24. Adults require fromby to 9 Sleep should be continuous. This is difficult in the practice of medicine. Rising in the night, merely to go to the window, is equal to the loss of two hours, particularly in children. It is a great mistake to waken children at a certain hour. They should waken by degrees. If the house catches fire, they should be carried out askep.

A llumbolat Napoleon I As & Fred. The Great - Innce Charles A Wesse, in his autobiography easys that I generally retired dy of hims a very good deeper at note again at 6. So, also, is required to Nap. I, Bourvene contracts the common numer. (Si S. Blave - Richiga & statut (Harriso on Waske fulnus) End of 28th Lecture, 1869.

Even for an adult, sudden rousing is bad. It is unjustly thought to be lasy to lie in bed in the mornings. The true plan is to waken by TRUE PLAH. degrees. This is especially so if the brain is fatigued If the constitution is healthy, only a certain amount of sleep is required. There have been some noted short SHORT SLEEPERS sleepers. Frederickhe Leat, & pro, Hunter, slept 5 hours in 24. Elliottelept 4 hours. It is asserted that a French general slept but thr. in 24. This in incredible. The injurious effects of want of slept are at first, nervous debility. In the end life is shortened It is well to know how, to get sleep when deprived of it. In sleep less CET blood goes through the brain than SLEEP. awake Dr. Hammond says that one mode of bringing it on, when troubled by insomnia caused by brain work or excitement, is to situp & go to sleep in a chair.

Six We Scott underlighten hope

This will not always insure sleep. It is only a last resort. Habit has effect on sleep. Dr. Wood, from long night-study cannot now sleep at night It is most hygienic to study in HYGIENIC the day, and sleep at night. This is shown by the rotation of day & night; and by the fact that arlificial light injures the eyes For hard mental work, the norning is the best lime Mental Influences affecting health:-CIVILIZATION Civilization. There are several ways of looking at this. 1et. Compare the Savage of the civilized, generally. Some think the savage is the state of nature Ours, though too artificial, approaches nearer. SA AGA'S Savages are not as large & muscular as civilized men. Their lives are shorter, disease & insanity are frequent. The savage is inferior to the Civilized man.



and. Compare the degrees of civilization A fabulous idea is enterlained of the men of a few generations ago. They are supposed to be larger and stronger than we. It is just the opposite. A sword of two centuries ago is too little now Men of our day cannot get into armor of that line While we cannot assert our powers as superior to the gereek, our hour er of acquisition is greater. There has been no deterioration. Average Age at Death [Page 2] AVERAGE AT DEATH. Chancer, Milton & Shakespeare reached full age. Lodid Macanley, De Zuincy, Wordsworth, Southey, Scott, Jefferson, fackson, Everett, Clay, Ewier, and Humboldt. Many Somervelle, 92; Nober Jean, 90. Does insanity increase with advance INSANITY of civilization? Statistics are imperfect. In a Great Frilain, the increase is INCREASE from lin 1000, to 1 in 300. In lb. S. from 1 in 978 to 1 in 378 In Massachusetts in 1854, it was from lin 676 to 1 in 300.

Balance, Maxim: For the perfect development and activity of any important organ in the human economy, it is necessary to maintain a balanced development & action of every other emportant organ of the expeters.

In the W.S. there are more young insame than anywhere else. In this country the greatest no is between 20 & 30 yrs. In aurope it is 30-40. Suppose insanity has increased. This PEFECT IN SYSTEM. does not prove that civilization has caused it. It shows a defect in our system. Seglect of physical culture, a contempt for exercise, is what cause now harm. It should include intellectual, mor-The object of Education is to give the Mind the list & command of its powers, It was once supposed that to be idu-EDUCATION Cated, one must know several languages. The best mind is that which has the most power to use facts. It must be remembered that the YOUNG young mind is tender. It must not be forced. When a child is learning its letters, its mind cannot be concen trated A child should not have to learn

Fris, trabel first kenderganten. Miss Probody in U.S. and of 2.9th Lecture, 1867 X * as in gymnastics; tight theavy.

much by tack-work. The best way is to let it use its senses and ask questions. It will learn more in this No child should go to school before 0 Tor syears of age; I then I should have but 3 or 4 hours a day. As preparatory, the Rindergarten (Rindmogouston) is very good. The child's mind is developed on a natural plan The average age of the pupils, is oyears. No lesson is allowed longer than 15 minutes At Tyearsold, a child should have 10 hows sleep, & 1 of occupation; and so on according to age. X

There are two systems of study.

One urges systematic task work; & SYSTEMS OF STUDY. the other aims at spontaneous efforts of the mind. No healthy mental activity is disagreeable Its in gymnastics, both siptems may be combined, the light k-In studying the interest must be ing first. maintained. There must be something to rouse up the mind. We can take

and the best of the * By placing before the mind as often as possible those objects, conceptions and thoughts which of their own nature tend to arouse desirable emotions; and keeping away although an opposite nature and tendency. the same the same to the second of the second of the second of the restriction of the second section of the the second secon

advantage of the automatorism of the brain. This applies to the emotional as well as the intellectual powers. It is wise to remember that a child's IMMATURITY organism is immature et cannot con-CHILD'S BRAIN. trol itself well. Parents should not expect their children to show as much control as they themselves. Instead of compelling a child to stop crying, it attention should be drawn of Healthy children, girls expecially, often lose their health at school. Chorea, nervousness, inflammation of the brains, and the foundations of insanity, are often contracted at school. Ask soon as the brain is jaded & the appetite lost, school should be left. Health first, education afterwards. The English schools have 3 or 4 hours daily. In medical colleges, the time is too long. More could be learned, with fewer hours of work. The brain willnot

EDUC AMON

HEALTH FIRST!

SCHOOLS.

En 1000 Cases

CRINSPAITY.

and the cares	
Theprical Causes	Moral Causes
Intemperance - 164	Domestic Loubles - 241
Chilepsy 68	Grief 88
Childbearing, &c. 45	Wounded Leelings _ 84
Vicious Habits _ 40	Religious Excitement-56
Bodily Diseases _ 18	OF: 1-11. T. All T
Other Diseases of Brain 14	Inght 48
Old Age8	Political Confe
Injuries 4	Political kother 34 Over Study \$ 8.
Undetermined	Over-Study = 8.
" Undetermined	-2/ cases.

establishent to 1869 (inclusion) 5535, over study 45.
Einel ill bestt. 973.
Intemperane - 417

absorb as much in Thows as in 4. Girls should be more out of doors than they are, and they should go to school The brain can be over worked even in the adult. victims of over-worked brains = page 2. Hugh Miller regined a good constitution by over-brainwork. The hygiene of study is then of interest. DANGERS The dangers of study, are, cerebral STOOK. enhaustion, predisposition to desease, general delility, dispepsia, and loss of eye-sight. Vecture XXIX Cerebral exhaustion may or may not be retrievable. If the functional action is impaired, memory and the privational powers are the first-to give way. It takes a very long time to build LONG PATIME EP. up the brain hower again (about 3 years) The symptoms of over-brain work, are SYMPTOMS. drowsiness & tightness in back of the head The diseases which are caused, are

10 0 Say my - to the bound of the state of the st work (brain work especially) is, - to take a gent deal of repose. End of 29th Lecture, 1869 -

approplexy (change in the blood vessels), DISEASES CAUSED. paralysis, softening (bywaste), and insanity. In the last thoreis atrophy. Close study demands agimal food. In debility of the body, where exercise can not be taken, repose is best. Distressing nervousness, dyspepsia, and over-stuox consumption of new force, are & injury to sight are caused by over-study are, also-ERRORS lute excess in amount of study, indifference MANAGEMENT. to sleep, continuousness of sliedy, monotony, no exercise, irregularity of meals, and How many hours should we study? The HOW HOOW wany work enduring heaple.
HOURS? Germans are the most enduring heaple. West, the English. The French & Italians have activity. We area combination. The maximum amount for age German is 14-16 hours in 24. Scott found 6 hours a day, enough. Bulever, 3 hours. The safest number is 8 hours There are two very erroneous ideas: to WRONG study late at night, and to riseat sun IDEAS.

rise. "Early to bed & early to rise" should be carried out in both respects. Some examp stories are related of chort slepers. Napoleon is said to have slept but 4 hours in 24. This is a great mistake He sometimes sleft very long. Humboldt was silent while it was asserted that he slept but 4. Few appreciate the disadvantage of long continuous study. The mere sitting long in one position is bad. L'atique of any organ follows continuousness. One hour at a time is enough to study ONE HOUR. without-relaxation of the attention. In an enough without exercise. Monotony is more fatiguing than vaziety. The brain is a multiple organ. When we are wearied with one study we should take another. Variation of pursuits may explain the endurance of great men. aristotle, Souther, Thumboldt Bodily exercise prevents an accumulation of blood in the brain Regularity of meals, & time for digestion

are necessary.
The eye is injured by dim or flickering light. The Brogand burner is the EYE. Recapitulation: - 3 hours work is enough for the untrained mind; 8, for any. Sliep Thours. Lit one hour at a time; only 2, without 2 hour exercise. Never read in allook more than 3 hours a day. Lake 2 hrs. energel a day (dumb bells frecessary). Nevereal and read at the same time. Do not slirly for zanhour after a meal. Read as little as possible by gas light; never by any imperfect light. While over work is so injurious, idleness is more so. Dull persons often get insane. The normal balance of the mind is not Kept, That explem of education which is general, is best. It is a mistake to force a child in one subject. The morally inteller tual development is thus injured. In America, the imagination is too much developed. Heere the number frovels read

by one person, is about one aday and two

Phrenol. - mesm. - Tabletury - Spor graphy

Adof 30th Leitme x

on Sunday. One ayear is enough. Even the emotional balance may be EMOTIONAL BALANCE. destroyed Benevolence, religious excitements. Love religion is naturally healthy Many patients have religious delivions caused by injudicious religiogaism. Other excitements, as political are often dangerous. The propensity of marvelousness has to be kept-down. Isms - Pseudo-Sciences. In the American mind there is awant of steadiness. We are satisfied with nothing less than some great afair, to stir us up Effect of Sympathy: - If a person yours SYMATHY. another will doit of a girl in school, has hypteries, radozen will have them in a week. When nitrous onide is given, all who take it will do as the first did REIGN On a larger scale we see it in The TERROR. Reign of Terror, the fall of Sumpley the surrender of fee, the death of fincoln. Great national events are the results EVENTS. of popular impulses.

* About this time (1873) the American epidemic of crime is, - homicide Suicide together! It is wonderful, how often (almost every day now) we as often, a woman, and immediately taking his own after In Japan & Chine, hori-kari is frequent, without mender, - inleed in place of it sometimes. The Mesterns modification of this is yet more fearful. I believe the newspapers to have much to do with such spir demics.

not who makes its Care? A school master who squinted, soonfound several of his boep to squint. In Ourope in the 15th, 16th 817th, centuries ERDEMICS. there were several epidemics of extravagances; such as the newing of a like cats which affected the inmates of a numery. The witchcraft in New England, & the Revivals may be so explained Suicide is sometimes epidemic. A sol-SUICIDE dier in a notel of Paris hung himself to his trad host. Within a week, several others hung themselves to the same post. Homicide also, may be so, hence the ob-HOMICIDE jection to rublic executions. + The morbid effect of sympathy is seen in hysterical females. A young woman had, an abdominal swelling as large as that produced by a pregnancy of months. When etherized, the enlargement disappeared. The doctor who was attending her, sent her to Philadelphia The was watched by the murse, who seeing her gsleep, found the lumor to disappear. In the hospital, a girl got in a

FORCAS OF TY.

Forms of Insanity. Acute Mania Chronic Mania Monomania Melancholia Dementia.

MUMBER.

Number of Ensane
In Trance, about 1 in 800 -500
Nonvay, " ... 550
Rhineland 660
England StVales 575
Massachusetts 300

MOST QUENT FRE CAUSES. Nosi Frequent Causes 1st. Intemperance 2nd. Reverse of Fortune 3rd. Domestic troubles 4th. Loss of Friends.

fit while a class was going through. The effect was that she got a fit, every time, it passed. She was cured by being told that it she would be subjected to a new treatment, that a red-hot iron would be run along her spine. Lecture XXX. In order to appreciate mental health we should know something of mental disorders. The nature of Insanity is hard to Diseasex of the brain, affecting the mind may be sensorial, intellectual, or intellectual. define HALLUCINATION Hallucination, as in delirium tremens is sensorial. This may not constitute insanity If the person who is subject to it, is aware of it and has a will strong enough to resist, he isnot insane. DELUSIONS Intellectual delusion is seen in delusions Omotional, or moral insanity, may be separate from intellectual. Thost insan-YTIMAZHI ity begins with the moral.

30 End of 30th Lecture, 1869.

control of the will.

The insane are alienated They cannot interpret any things as others do. FORMS OF MY. Forms of Insanity = Page 28. IMBECILITY Inflecility is the same as dementia The causes of insanity are hereditary, CAUSES NITY. and exciting. Insanity is the most heredday dis-HERMARY. lase. Insanity of the mother is transmitted more than that if the father. The insanity of the nother generally goes, to the daughters; that of the father to the sons. There are fewer insane women than men. Hen are exposed to more excitement. In Europe the most insanity is between AGE. 30 & 40 years. In the Co. S. it is 20-30. Season has influence There are more SEASON. cases in summer, in June & July, and more in cool climates. The mode of life, country, or city, has an influence. In France, in the country, MODE OF LIFE.

32. 3332 OMITTED, 3 LINES From TOP, OPPOSITE PAGE Occupation makes adifference OCCUPATION. As to marriage or celibacy, the latter has MARRIAGE. most In I. Brain, with twice as many manned as single, there are more insane single. The difference is greater in men. Savage & civilized: There are less in GRUAGE the former state but they die sooner. NUMBER of insane - PAGE 28 The excess of insane in civilized nacivino. Tions is probably due to intemperance. En one hospital 12 per cent was pro-INTEMPERANCE duced directly by intemperance. Intreetly a man's intemperance may drive his wife mad, & the disposition may be transmitted to children. The causes of insanity are moral, mental, & physical: The first are most common, especially in females. causes of insanity-Page 16,

32 33 there are 7.79 to 1000 people. In the city 7.79 in 1000. En England, country in 820. city in 1200. In one asylum, the order of frequency CROCK was, in males; alcohol, reverse of fortune, "Arquet domestic troubles, loss of friends." In females, loss of friends, reverse of fortune, abuse of alcohol (Lyon & - slip) Suicide: - Since the beginning of this ceptury the number of cases in Thance has been 30,000. Out of 4000, most, in the country, were between 40 & 50; in Paris. between 20 & 30. Sur unes abilden under THE NUMBER of saicides in England, according to a report of the Registrar General, 9, & 1 under 5. cording to a report of the negistral dentilia, averages 1300 annually, and varies from 64 to 70 annually for each-million of the populavember the It is a must tion. Hanging is the death generally adopted by suicides, more than two-fifths of them SEASON FURT. adopting this mode. In France the annual hot weather rate is 110 per million of the population; in Belgium, 45; Italy, 30; and Spain 15. sucides' month. and on a fine day. The most common time is 80° clock A.M., next noon, When night, Fewer mountaineers commit accide, than lowlanders, & fewer women than men. The signs of insanity are of con-MEANITY sequence. SLOW. door keeper of the first-bongress died of joy. A young man called out in the

32. 3332 OMITTED, 3 LINES From TOP, OPPOSITE PAGE Occupation makes adifference OCCUPATION. As to marriage or celibacy, the latter has MARRIAGE. most- In G. Britain, with twice as many manned as single, there are more insane single. The difference is greater in men. Savage & civilized: There are less in GRUAGA the former state but they die sooner. NUMBER of insane - PAGE 28 The excess of insane in civilized nations is probably due to intemperance. En one hospital 12 per cent was proand united under the old title. During these upleance. Individual troubled traces a settlement had steadily upleance. Individual troubled traces a settlement had steadily upleance. Individual troubled traces a settlement had steadily upleance.

A hour forty miles before the former falls into the unay drive his great Lake Winnepeg.

Since the conclusion of peace between the hostile companies this colony has greatly prospered, and now numbers about 10,00 position may be soils. The company have done everything in their power to prevent the growth of the Red River colony, and the settlement of an and the settleme The causes of insanity are moral, mental, & physical: The first are most common, eshecially in females. Causes of insanity-Page 16.

32 33 there are 7.79 to 1000 people, In the city 7.79 in 1000. In one asylum, the order of frequency Rock was, in males: alcohol, reverse of fortune, respect domestic troubles, loss of friends. In females; loss of friends, reverse of fortune, abuse of alcohol. (Lyon u- lip) Suicide: - Since the beginning of this century the number of cases in Thance has been 30,000. Out of 4000, most, in the country, were between 4,0 & 50; in Pais between 20 & 30. Luo were children under 9, & I under 5. It is a mistake to call shovember the suicides' month, The most are in hot weather, and on a fine day. The most-common time is 80° clock A.M., next noon, When night, Fewer mountaineers commit encide than lowlanders, & fewer women than men. The signs of insanity are of con-INSANITY SLOW. SEQUENCE. A few fatal cases are sudden. The door keeper of the first-bongress died of joy. A young man called out in the

34 -a a a a a The state of the s a service service

war, died of excitement Generally, it is more gradual. If attended to in time, It could be often prevented Damiens, assassin -The premonitions of igsanity are 1. pains in the head. Thousands have headache, often heredilary, or they may have neuralgia, yet these are not signs of insanity. When not thus accounted for & when other sians are bresent. hain 2. Nervou of admissions in Trans the popular of es bring on 980 for dometer trulles; of 5438 and aus-Ening who 1569 same most within the first citement. I sor & months, I for 25635 years 2appoplexy 6. Gloom; war in a war in a I. Great mutations in a short time, are

· often fre place are latterly being introduced at Paris hop Legout & motel - 1 mane 4500 popul à trans : Shots d'atins being welled in the statesting that the last, in asylung of 100 admissions, 92 more 7 couts & 1 cretini, Of 48992 admission 4620 Sounted; 1248 ecclaration & religions of the sorter o

35 war, died of excitement Generally, it is more gradual. If attended to in time, it could be often prevented Damiens, assassin -The premonitions of igisanty are 1. pains in the head. Thousands have PAIN headache, often hereditary, or they may have neuralgia, yet these are not signs of insanity. When not thus accounted for & when other signs are present, hain should be attended to 2. Nervous irretability. Some however have this without its being a sign. If anyone naturally calm becomes irritable, it is a bad sign. 3. Want of power of attention. & Sleeplessness. This is a serious sign This, is one of the modes in which moral causes bring on insanity. It is least threat ening when caused by mental effort. & Mental exhiberation, unnatural excitement. This is often observed before appoplexy. 5. Gloom & depression, without cause 1. Treat mutations in a short time, are

Influences & Conditions most favorable to the preservation of mental health: Sound bodily constitution; Balanced education, of all the faculties; Regular occupation, involving, or allowing, some daily exercise in the open air; Sufficioning of pegular, uninterrupted sleep; Moderation in diet, & in all excitements & indulgences; Neligious faith; or rather, faith, hope & charity, these three? Collections of Santy & mounty: Johnson - Coupe Byrn - J. Howard - Gredon F. W. of

ellental chorca (winslaw) very serious signs, Agentleman about to be married, was exceedingly elated. In a week he had a fit of melancholy, & destroyed his life The reversal of ordinary temperament is a bad sign. Aversion to friends is a very common In <u>prevention</u>, the treatment must-mon, be adapted to each case. Some need cathartics, some alteratives, &c. They must be free from carl. Travelling is not good, unless the mind is merely jaded with monolony. Seclusion is necessary, both to restore. them, & to prevent catastrophes. This step is generally taken toolate. Agentleman who was yelancholy for years out his throat. Had he been in an asylum, this would not have happened. In the present century, there has been TREATMENT great improvement in the treatment of insane. They used to be chained in cells. De_

W. U.C. Dassif. & description of off. forms of insanty Auto Marin - Varieties (Responsib.) - (Penosicity) Monomaria - Homicidal - Klefstom - Pyroman , Methorama Mel auch olia Therapentus of meanty. Indications, according & statewhether inflammatory, - hyperomic, - of writability, Decemie chorcie, or atrophic. Soft. - opletion? cold therd - purgation - quick - Crete. Intake, Calmetines of fever, hypray, comin for fell en oral choreic - moral treatment especially. Atrophic - Resp- torries - hypunic recupingtion - be Colof 31th Lecture 1 0%.

39. The first improvement was in York retreat in lengland. About so years afterwards, in France, good treatment was begun. Now they have as little restraint as possible. Nothing should prevent a willingness to go there to an asylum. PATHOLOGY. Pathology of Insanity: - Inflammaof the brain is to be distinguished from insanity, yet they glide into each other. One idea of insanity is that there is at first too much blood in all the brain, & that it subsides except in one ract. Scenes The brains of insane are lighter than others. We cannot make out all the heculiarities. X The next subject is Etiology. or Enouge causation of disease The causes of disease are: 1. Hereditary, as cancer, consumption, gout, epilepsy, & insanity. 2. Dynamic. This is connected with

40 Hereditary, as gout, consumption, Estables exploses, mont, cancer. Dynamic; as over-exertion Williss; ven. excess. Mechanical; as traumatic tetames, of apopling from position. Obstructive; as neglect of bowels, unleading Conditional: as heat-stroke, Ingestive; as trichiniasis - or on medicalion. Contactive; as small-pox, syphilis -Atmospheric; as yellow fever, cholori (in pin). Temperaments EMPERAMEN'S Languine. Nervous. Lymphalic. Fibrous.

the functional activity. Exs. over-work, sensual excess, be. 3. Mechanical, wounds, lacing, position. H. Obstructive, uncleanliness, ill-vent illation, lowels. Le.

5. Conditional, extremes of heat-scold,
moistigne & dryness, & electricity.

6. Engestive, poison, intemperance. illation, lowels &c. abuse of medicine. Ve. 7. Contactive, syphilis, gonorrhow, small-Enough has been said of hereditary disease, which is inherited, almost always. The period of life in which it oc-curs is generally the same as in the parent. Some members of a family, or some generation may escape. Sometimes the disease is inherited in a modified form modified form. There are certain influences which may

of inferior constitutional vigor. In large cities, the vices of communities cause the deterioration of many families - expensely through syphilis and intemperance. Mortality of children to by such causes much merened, in a marked degree by affections of the nervous Lysten I which convulsions are a very frequent many-

43. affect whole races. The Esquimaux are affected by climate. The southern S. Americans, by food & climate. The Bushman by savagery, food, & climate. Even in civilized life there are sollar influences. Thus in malarial regions there is a certain tiple of men, Examples of dipramical causes are fatigue, indolence, & sensual ences. Examples of mechanical, wounds & injuries, position (stooping), pressing the chest, light-lacing. When a person is approplectic, stooping may endanger life. Obstructive causes are very in fortant. The lungs may be obstructed by foul air Conditional causes are, heat seed gans are the nost affected by these but it excluse cold & wet sudden exposure of a fart to coids. The physiology, of colds is as follows. Suppose a draft of cold air is on one

44.

part. The arteries are constricted & the blood driven away The action of the sweat glands is lessened, & the blood becomes loaded. There is a tendency to local congestion from the first cause, I of local deposit from the second. This theory is verified by fineumo-"CMONIA nia. During its height, chloride of sodium leaves the wrine. At the same time, the expectoration from the lungs contains it. As to electrical influences we do not know much. Ingestive causes are poison, er-INGESTIVE rors of diet, 2c. They may do harm from quantily or from quality. A deficiency of vegetable food causes scurry. An excess of animal food causes gout, each sex fig lex and temperament have a modifying influence. There are differences at different

46.

End of 31 N Lortone, 1869

47. INFANCY. times of life. In infancy, the nutritions powers, & capillary circulation are most active. The ganglionic part of the nervous system predom ingtes. The surface is delicate. The process of making animal heat is feeble. Some organs, aslungs, are not developed. The diseases of this period are cutaneous diseases, disorders of digestion, convulsions, glandular derangement, pseudo-membranous affections, preumonia at this time because they occur but once in a lifetime, and children are very susceptible to all motif agencies. ADOLINE In adolescence, the gelerial suslem is well developed. The emotions are strong. In the female, menstrua. tion occurs. OISEASES The diseases of this time are ac-tive, congestions, inflammations and

hemorrhages.

48. N SANGUINE

In the sanguine, there is a high vascular development with activity of the system. Inflammation, hemorrhage & fever are most likely to occur in this some take account of the brain in temperaments. Thus the sanguine man is said to be inconstant & fickle. Examples of San, temperament, are

EXAMPLES

NERVOUS

Mark Anthony, Charles II of England, Murat. Nervous temperament does not mean a righ nervous development, but an excess of excitability. There is a deficiency of blood. The Brain may be in land and The person is generally stender, pab, & wiry.

EXAMPLES.

LYMPHATIC

Notaire, Pope, John Randolph. Dr. Geo. B. Merblellan. Compar - (7. Shilfita) Lymphatic temperament is characterized by his slowness; predominance of the mutritive powers, and less active circulation and nerves. The bilious (or fibrows) temperament

Examples: Frederick the Great of Brussia

FIBROUS

And Sand Sandard Surperments Sorry Lines Lymphatic " Silder wanted toperate At Hawkin - 69-70-Harrym - of - 182 4 See red P. 82 4 Combination of temperaments most frequent; as Sanguine nervous - fibro-lignphatic - fibro-sanguine, &

53 is characterized by endurance. There is no association with bilious disorder. There is a full development of bone and muscle, without activity Examples: Alexander the Great, Casar, Richelieu, Mohammed, Peter the Great, askington, Napoleon I & III, I Srant, Earfield. Special Etiology CHOLERA Copidemic cholera has already been treated Majarial disorders are very important in this country. The best account of these is found in Drake's Diseases of the Great American Valley." Malarial fevers are divided into in-termittent, remittent, and permicious. The first is found in all continents in yarm climates, in certain places. They are always local & never exist in thickely-built cities. A temperature of 60° is necessary. They are most inolept in tropical & subtropical climates In the cast they when prevail over rocks. Surface water favors them,

526 the state of the s

55. The sea is comparatively free, un-less in the vicinity of marshes, They follow the clearing of woods. SEA. Organic matter has been detected, ORGANIC MATTER. but no gases.) The first culture of soil causes them. A period of incubation, about 3 weeks, often follows exposure. There is a difference in the health of seasons which without any known physical cause. The boundaries between an unwalth & a healty place are often narrow, a grove of trees, a large house, xe. often being sufficient. alies, overejease may be explained by the person having gone into the country. sombered our city, a now of houses at 10the Columbia Av. had several case. There was an open lot with a hond, on the opposite side. This pond was.

56. 1 32m Lecture x

57. drained & no more cases occured. The most remittent fever is in south. confestive fever is always South. FACTORIES. Large factories diminish malarial fevers Cape May is sometimes visited Toutters of the soil produces them CULTURE It was once thought that sulphuretted hydrogen was the cause; but it often exists where they do not, & not, where they There are several hypotheses of cause, HYPOTHE 1. Electrical, of Jas Murray. & Lind y Plan OF " 2. Meteoric, or Conditional, (oldfrom) CAUSE 3. Malarial gasex The meteorie theory is not assigle. MALARIAL AE VERS The cause is a material poison, Impical regions furnish abundant vegetation. Gold ends the attacks The latence of the affection, & its endemie Character show that the cause is a getable organic growth. X

58. To Escape Sall Sever, in a HOW CAPE TO E FALL FEVER, Malarious Pocality 1. Avoid the evening & night air. 2. Never go over tainled ground with an empty stomach. 3. Have a fire in the house, always in damp weather. 4. When much exposed take a few grains of quinine daily. Gellow Hever. YELL FEVER. 1. es met with only in warm weather, I near the sea. 2. Is rarely diffused over continuously over very wide region. 3. es, not contagious. 4. Is rarely conveyed by familes. 5. May be carried in foul ships. 6. May be prevented by Sanitary Police. 42 1900

59. Salisbury thought that the cause of malarial fevers was was a minute vegelation. Liventy years ago, Dr. Mitchell thought that malarial fevers depended on fungous plants. Many facts gave plausibility to it. He showed the coincidence between the plants All the deliminations fevers & of ringous plants of All the deliminations of the delimination of th of these organisms. Some say that they do not produce the disease. These organisms are present in the most common, town any when in dear dying and. In 1863, the blood of a sheet which had died of ephenic apoplexy, was found to contain trem. They are not destroyed by suchhuric acid. They are absent in healthy sheen. Fermentation is produced by regelation. Some are acctous, lactic, 3

60.

butyrio In India a fungous disease of the foot is fatal unless the foot be ampu-Hospital gangrene may be produced in this way On examining the expectoration of intermittent fever, many forms were found, but only one was constant. It was an alloid plant. Pieces of glass were suspend-Id over malarjous ground. These organisms got on the upper side. Palmella. Fresh earth was taken from a prairie bog. The same forms were found Shey are more or less abundant at different heights. Shegare higher at night. DRY STRAW, Dry straw is good to putowir a place infected with ague. He placed some earth with these forms, under a window. Shore who sleft in the room got the disease. These observations require confirmalion by some body else.

62.

DR. HOLDER. There was intermittent fever, & came from an open store room. In this room there was much milder, SAUSBURY, Dr. Salisbury concluded that caustic line should be spread on miasmatice ground. Some years ago the country seats SCHOYLKIU on the Schuffkill were uninhabitable in fall on account of ague. It is quite different now The disturbance of the water prevents it. The malaria of the Campagna near Frome was caused by clearing a forest. a forest. The rice swamps of the South, are terrifice malarious ripieral She Great Dismal Swamp is not swamp malarious, on account of the cypress Prevention: - We should keek within doors from before sunset till after suna rise. It Passing over malarial places is dangerous. Never pass such a place,

with an empty stomach. The lungs & skin more probably than the stomach absorb the hoison, but a want of nutrition is unfavorable. Me should light a fire to one nooms. Hammond says that mosquito net will keep out malaria. Quinine is a good preventive, Livingstone doubted its effects. The amount which he used was small. Yess than 4 grs. arenot good Duchailly 6 gr. This subject is open for investigation. YELLOW Gellow Fever comes next: et is a subject of controversy Against its being contagious are, A commission of the French Academy, Humboldt, Jondon Board of Health, Sanitary Commission of N. Orleans, Dr. Drake of Chio, La Bocke of this city, Barton & N.O. and, Seo. B. Wood. For contagion are, Monette, African of Edinburgh Mc Williams, & Brof. Dickon, The conclusions are 1. The cause is a specific material, perhaps a vegeale organism.

2. The poison may be propagated by 3. Seldom north of 48°N. latitude, and not-much below the equator. It is always near the Atlantic Ocean, & CX 1575. never goes to the Pacific It visits W. Africa, M. South America, W. Indies, Charleston, Rio Jeneiro, N. Orleans, Mobile, Savannah, Pitraller, Natchez, Nicksburg, N. York, Boston, Philadelphia, Marseilles, Barcelona, Leghorn, Wicily, (Carthagena) Et goes in the train of the Gulf Stream.

Bontinued warm weather, high dew

rough for its existence. for its laistence. et is rarely much diffused. NOT CONTAGIOUS. The poison can never produced in the body of the sick. It is seldom transported by formites. Ships transport it. A ressell at the N. y. quarantine gave yellow fever to other shipsand even to the shore. It is generated by an accumulation of

Lausation of many, indeed most important house has been already incidentally alluded to in the Bevious Cectures of the course. Are may therefore, be more brief now concerning them.

foul air. If this is absent, no extension Cleansing & fumigating will deprive a ship of the hower to transport it. It should never exist because it is in N. Orleans. The removal of the people of an infected district puts an end to the endemic. Typhus: - Sephus fever is not confined YPHUS. to one place or season, fail, camp, ship, I typhus fever, are the same (Chlesis (crowd poisoning) is its cause, After that it becomes contagious. One person infected, has the poisoning power of a crowd, The weight of English authority is against this view Farkes & Bilken lean to the Selief that a special tiphus poison is necessary. An Egyptian vessel bound for Liverpool with 475 Arabs, got typhus. It originates on wood. Seo. B. Wood believe in crowd poison

70 Causes of Typhoid Lever. TYPHOID YEVAR 1. Constitutional Predisposition 2. Nervous depression 3. Opidemie influence. 4. Joeal insalubrity 1. Intense Heat. CHOLERA IUM. 2. City Atmosphere. 3. Infantile susceptibility. Causes of Erysipelas. ERYSIPELAS. 1. A peculiarity of the Air 2. A morbid tendency in the patient. 3. Mostly, a lesion of the skin. Causes of Puerperal Fever. 1. Jainted Atmosphere. PUERPERALVER 2. Reterine besion. 3. Reterine vascular absorbtion.

Lecture XXXIII. There is much obscurity about typhoid fever. It is rare, over 40 and under 10 yrs. It seldom occurs twice CYPHOLD FEVER. in a lifetime Agencies which cause nervous depression promote it, sometimes It has been apparently contagious. CONTAGION. But in the cases where it was Roy it was probably confounded with lighter fliver or perhaps blended with it - nivedner. In 4 cases of convalescence from typhoid fever, typhus followed. This shows the distinction between their. Mercheson of England says that typhoid fever is caused by foul air, There are many objections to this. Tout drinking water carries et. Dr. Flint & Poston says that 28 out of 43 people of a village had lighting fever Only 3 families escaped. Ing of these lived far apart from the rest, and the third had quarrelled with the impecher. All but these three used the same water

72 The second second The second of th

Drs. Jackson, Smith of Conn, Routh, Budd & Simon, & Natson, believe on PARKES. Dr. Parkes says he knows of bad drainage without typhoid fever & vice versa. It is difficult to believe in its contagiourness. It is met everywhere, in all climates, & every leason. Hised cases extrain apparent contagion. Gr. Mood says that in a constitution predisposed to the typhoid; anxiety, foul water, typhus poison, Le will bring it on. It is safe to admit the promotive influence of water and air. Honce disinfection is good. Syphomalarial fever is a mingling of two types of disease. There are 4 elements of causation 1st Ordinary cause of lyphus 2nd. Autumnal Malaria 3rd. Cause of Typhoid All. Scorbules cause. The light of the fever varies according to

75 the combination. This mixture causes complicated study. The different elements cannot be over looked! Quinjne is good Ta Toche wrote a book on the relation of precimonias malanal fever. There are two meanings to typhoid preumonia. 1st. eschaustion with preumopia, 2nd. epidemic or endence In the south there is a malarial influence. This preumona is called bilious preumonia Spotted fever is not well known. Even the name is not settled some prefer to call it cerebro-spinal menenghitis. Cerebro-spend fever best of all. It is usually sudden, with headache, delirium, eruption in most cases, stupor, death in 6 hrs. Boudin mentionsit in 1568. Stoc. aured in Geneva in 1805, Staly, 1841, Ireland, 1847, Phila, in 1813, In 1863, there were, so deaths in Philada, Mostwere at Manayunk, Kall, &

Norristown. Few cases were in the built- up part of the city Boudin noticed the coincidence of its prevalence with war. As special poisons make special diseases, so here theremay be a material poison. The long existence of filth in clothing may cause a chemical action A lady of Germantown was mending soldiers' clothes. She got the fever Plague is a subject of controversy PLAGILE If is not contagious. Two facts prove this I It is a disease of a season? San itary police kills it out. After drain ing a swamp in Cairs, plague disappeared. DC. Caldwell, in Phile, 25 years oggarmore. Cholera Enfantum is caused by an CHOLERY SUL intense summer heat, the air of a large city, & infantile susceptibility. We can trace the no. of cases by the thermometer No physician should encourage keeping infants in thecity in Summer. Removing to the country is curative.

18.

Dysentery may be inflammatory or epidenic. The ordinary kind may It is common in high regions wear malarial places. Some say that malaces causes it. The drinking water of limestone regions is said to eause it. Empipelasis endemie un large surgical hospitals. Plauliarity of almosphere, mortid tendency, and lesion of the skin are necessary It is caused by effete matter thrown of from an inflammation. Puerperal fever has the same kind PUERPERAL of cause In the Tenna. Hos the at. tendant of the surgical ward does not attend the obstetric ward, In ergsifelas the besion is on the skin In purperal fever it wonthe uterus. It is different from peritonities Some say it is peritonities: some, byemia; & others that it is a true fever. Puerperal fever is transmissible.

80. 100 deaths in a single mule how Diphthouse in Jans, 1875

A certain physician of this city gave it to every woman whom he The few facts do not prove anything. They are merely enough to put us on our quard. Washing the hands with chloride of goda, is good. Some will not attend both puerperal fever & ergsipelas: right. in 1856. It is a pseudo-membranous affection It is a domestic pestilence, falling heaviest on the poor. Excessive changes of temperature cause it. Sometimes it is hard to tell the cause. INDICULATION Attempts have been made at inoculation, but they have failed. It Cholera nest: see my book on it.

82. PUBLIC Public Hygiene 1. External, Exclusive; Personal mover; Duarantine: (Personal mapation sc.) Available only against personally contagious diseases. Ship Inspection and Dirification are important against Gellow fever, Cholera, & Tophers. 2. Internal, Sanitary Votice. 1. Hyang ording Isines | Cleanliness of Fleouses & Streets, Markets, Mharves De Construction of Buildings 2. Against contagnios Drainage & Severage & enferme & bedome Conservancy. malaret for -Supply of Water & Food Nuisances, Avocations. Sublic Vaccination Mellow term -Cholen . Medical Attendance of the Poor.

Lecture XXXIV. The diseases which have just been considered are symplic or entitle ZIMOTIC DISEASES. The term zymotic (I ferment) is a good one. Liebig suggested an analogy to fermentation to the production of a chemical change. There is an analogy to combustion and decry. All forces are capable of propagation. These analogies are important. Pollin of Milan introduced the use of sulphites to arresting zimolic change. Scarlet fever, mumps, yellow fever, typhus & typhoid fevers, occur but once in a lifetime. Dr. Simon of Fondow asks why do they occur once only? He says there may be in the system, a material which isnites with the virus, the disease being thus caused. He compares this to the satiration of a chemical body. of vinegar be poured or carbonate of ammonia, it will effervese until saluration is complete.

84.

85. FOR CHILBLAINS. — A writer in the Apotheker Zeitung recommends an aqueous solution of iodine and tannin as a remedy for chilblains. He says. that the application has been tried with good re-Just RO, on sults when properly applied. About an ounce of VIRUS ACTION tannin is dissolved in half a pint of water; seventyfour grains of iodine are dissolved in an ounce and virus Combinee fourths of spirits of wine; the two solutions rial are then mixed, and enough water is added to make disare then mixed, and enough water is added to make will will mount the whole to two and a half pints. The remedy is applied once daily, the best time being before last. The mixture is gently warmed over a very slow fire; the affected part (as the hand) is s sat-As other dipped in it while still cold, and held there until the liquid, on being stirred, feels uncomfortably hot. The Mation, Dis dried over it, without gloves. The vessel used vessel is then removed from the fire, and the hand well must be of earthenware or porcelain, not of metal. 2 the Combine Worker should be taken not to use too great a quantity of iodine, especially when abrasions are present. Ifficacef Four or five applications are usually sufficient. Phthisis. Inheritance generally -not PHTHISIS often is the cause. Bad air, not enough food, lentary confinement, want, of light, & debr'itating CAUSES. excesses, act in producing it. In a prison at Vienha, in 13 yrs, og deaths in coo were from phthisis. In a better ventilated prison & in coo were of phthisis. Limitar facts are seen in the 6. Indies In the British army & navy the propor. it seems to be contagious. Monkeys in the Toological Gardens Monkeys generally die of it. Cows are subject to it

cultural laborers, and porters), 11.5 per 1000; coopers, 8.5; machinists (including blacksmiths and metal workers), 8.2; lawyers, 7.8; seamen and watermen, 7.7; boot and shoe makers, 7.7; barbers, 7.2; carmen (including coachmen and teamsters), 7.1; printers, 7.0; painters, including varnishers, 6.9; masons and stone cutters, 6.8; carpenters (including cabinet makers, upholsterers, and joiners), 6.6; dressmakers (including milliners, mantuamakers, tailoresses, and seamstresses), 6.4; teachers (female), 6.0; tailors, 5.7; bakers, 5.5; bookbinders, 5.3; cigar makers (including tobacco workers), 5.2; domestic servants, 5.1; butchers, 4.6; clerks (including salesmen and accountants in stores, banking, brokerage, insurance, and manufacturing establishments, and civil employés of government), 4.6; hatters, 3.8; physicians and surgeons, 3.8; pedlers (including hucksters and commercial travellers), 3.1; merchants (including traders and dealers), 3.1; stablemen, 3.0; teachers (male), 2.2. N.M. (Health Report, 1877 2

matatity hr

85. Just 20, he says, when small-pox virus combines with all this material it will no longer come out as a disease. This is very plausible. As other acids will produce this satwration, so, he early, cow-pod virus will combine with this material. Hence the efficaces of vaccination. Phthisis. Inheritance generally but not PHTHISIS often is the cause. Bad air, not enough food, sedentary CAUSES. confinement, want, of light, & debilitating excesses, act in producing it. In a prison at Vienna, in 13 yrs, og deaths in coo were from phthisis. In a better ventilated prison & incoo were of phthisis. Limilar facts are seen in the 6. Indies In the British army & navy the proportion is very large. In some ships it seems to be contagious. Monkeys in the Toological Gardens Monkeys generally die of it. Cows are subject

modelation of phthisis. It seems at last that woodation with anything that causes son ichoromic suppuration may, in Some aremals, generate a tuberculoid affection, - with deposits, in the lungs & elsewhere, not disting. whatle from some of the deposits of tuberculous cases, Now much of them is cally identical with tubercle to how for the pathogenetic process is Different from that of phthisis, one questions yet open.

ATTEMPTS PRODUCE IT.

Some thought that it could along time be produced by foul air, a dark place, poor food re. Rabbits were experimented on, and a deposit was found in their lungs. But it was not tubercle but ova of small animals. Phthis is is common in proportion.

LOWNESS OF SITE. Phthisis is common in proportion to lowness of site. A high & equalle climate, by a not subject to extremes is best.

All that depresses corganic energy tends to phthisis, if not intense mough to produce acute diseases.

SKIH

The importance of the action of the skin is overloosed. When it acts, the hings are freeze

S HAGIENE C

PUBLIC HYGIENE.
Sonal.

QUARANTINE

It's Divisions (Page 82) Lugrantine has already been considered in the introductory lecture. Lin the betures on Cholera.

& I to in beland, 1868 - Knearly to other years there I in Scotland. The uneitherent owing to an alarm about vaccinal syphilis, caused I to be comparatively neglected. There occum in the first half of the year, 700 8 thousand cases - with a mortality of I'm bor7 cases.

The diseases against which it has been employed, are plague, small-pox, FRU ALWARD typhus & yellow fevers, cholera, scarlet fever, X meades. It always has failed Even at Malta where the sixtem was so rigorous, it failed to keep out small-pox. It is available only in personally contagious diseases. Small por is contagious. If it were possible to keep it from our shores, we, of course, would not have it; but we cannot prevent its coming Besides, vaccination is surer presentive En Providence, P.J. the disease has been banished by public vaccination? Syphus fever is contagious. It comes in ships. Here again there is something better than quarantine viz. ventilation& cleanliness. Gellow fever & cholera are preventable at The only true quarantine, is dist-quarantine Ships should be detained for inspection. There should be a place for inspection,

PERSONS.

removed from the city. There should be a near & a remote station. If a versel is obviously in bad condition it should be stopped at the 1st. Station; if not, it should be allowed to go to the end. where if there is the slightest suspicion, it should be detained. This would prevent accumulation of vessels, which would cause disease,

In N.V. the great-defect is the want of

land accommodations.

En cholera or yellow fever, detention of persons, does no good, but harm

It should be abolished.

When a vessel arrives with cholera, the crew, &passengers should be scattered over the country. This has been done with good effect, at Ballimore, the cit, northerty 4. f. cases

Bathing, disinfection, changing posi.

tion of merchandise, steam, submerging, destruction of bad food, ejection of bilge

water be should be attended to in such

We now pass to SANITARY POLICE. In all aties Boards of Health are established

SANITARY POLICE

MEASURES TO BE TAKEN.

92.

95. this not identical with severage which includes removal from houses. The facilities for drainage are of importance in choosing the site of a city what to do with sewage and con-WHAT TO SENDE. servancy is not settled. Victor Houge, treats abby of the sewers of Paris. They are now a city beneath a city. But, much waste, yet. Lecture XXXV. The two modes of drainage are emptying into nivers, takes reas, Se, and pouring over fields, for irrigation. The first is the more common. The other Edinburgh it is very successful. The refuse of the city is every day carried out in wagons and sold to the farmer This irrigation must be periodical. It would not do to be flooding fields every day. There must be reservoirs to keep it in. STREET There are two methods of disposing of street dist. To sweep it into the DIRY.

96 * De Stramm, a German epidemiologist, deserves that good privies are for higher Signs of civilization than grand places and museums of art."

sewers, or to cart it away. The latter is much the better way. Either will do, if properly carried out. of conservancy: by deep wells, by con-necting water-closets with sewers, and by carrying it away to fertilize fields. The wells will do, only when they are WELLS. so deep that they meet running water or very permeable soil. That they are not so in Philadelphia, the horrible night-carts attest. The air & water are lainted were by them, when long neglected especially . Connection with sewers is good if the severs are managed rightly. There must be a good descent and plenty of water. There must also be a value to prevent the return offoul gases; and no sharp apples or corners to allow of detention. The sewers themselves should have traps. & should be capable of being entered and cleaned. The least objection is to be urged ERTILIZING against the utilizing plan. Besides

98. 3

its penefit, it is economical. In the fondon sewers the velocity of flow is 1/2 miles per hour. Before 1839 KONDON SEWERS. they emplied into the Thames at low lide. At high tide the water was carried up past the city, injuring health. Now they empty at high lide & firther down the over. When the improvements are completed the total cost will be \$20,500,000. vance alphants for market the Government, so that if a collision divey would be put clearly and maning the wrong.

Sanks replied substantially in the affirmation of the wrong that could not be done with a proper object of international courtesy to Portugal, so the proper object of the proper of the government of the proper object of the proper of the prop the Government, so that if a collision receipted animals. SEWERS. sneey & liquids are transac made into firm, w fertelizer. advanc mand h In The Schenck, of Ohio, took strong ground Mr. Harvey, whom he spoke of as one it is carried BEBLINA. bread-and-butter brigade. ' deek and had rend the letter in contro-\$10 55 a outin Raymond, of New York, repeated that was nothing in it that deserved such was nothing in it that deserved such its as had been applied to it by Mr. was and suggested in reference to the vindens, and suggested in reference to the vindens. heavy vown in font of the desired in reference that he serves shown by Mr. Stevens, that he serves shown by Mr. Stevens, that he serves shown by Mr. Schenck that A very good way is to mix it with dry earth. A Prussian Commission Rent to PRUSSIAN ALC Orgland, reported unfavorably of thewater-drainage sixtem. There's

THE LONDON SEWERS .-- The Corporation of London is engaged in the construction of an extensive system of sewers, which, when completed, will cost \$21,000,000 in gold. Of these sewers, eighty two miles have already been built. The drainage to be carried off by this extensive system is derived from an area of about 117 square miles, and a population of 2,800,000. The capacity of these sewers is estimated at 14,000,000 cubic feet. In their construction, as far as progressed, 3,500,000 cubic yards of earth have been excavated, and \$80,000 cubic yards of concrete and \$18,000,000 bricks have been used. "This grand system of sewerage," says the London Lancet, "has been constructed under buildings, and over and under canals, rivers and roadways, from twenty-five feet above to seventy-five below the surface, without any important casualties or interference with the public convenience or traffic. The arrangements of the metropolis would appear to be more wonderful and successful below the surface than above."

its benefit, it is economical. In the Jondon sewers the velocity of flow is 1/2 miles per hour. Before 1859 KONDON SEWERS. they emplied into the Thames at low lide. It high tide the water was carried up past the city, injuring health. Now they empty at high tide & firther down the river. When the improvements are completed the total cost will be \$20,500,000. In Paris there are seephresfor market SEWERS. offal, petal matter, & dead animals. In the privies, the solids liquids are separated & the former made into poudrette an excellent fertilizer. In Berlin & China, it is carried BERLIN. out in pails every day. In switzerland, it is thrown in font of the doors! A very good way is to mix it with dry earth. A Prussian Commission sent to Ongland, reported unfavorably of the water-drainage sixtem. Towas

100 Goreto of 50 mondrals enough to fertilize I acres, Population of Philipping - 15000 to 16000 acres. Severo - Senare (artificial) by impermentle underground sommes.

101. reported "wasteful": Tubig estimated the value of the Yordon servage at 300 Hets pr. ton. John dense population the value is 1.68 SEWAGE per head per annum. If sewage be used for irrigation, it must be on crops which can be benefitted son soil which will absorb the bad material. Dr. Gilbert tried four fields and found that very little ammonia & organic matter escaped absorption Agentleman of this city had the urinals emplied on his garden every morning. Grass is thomost benefited There are two arguments used against the fertilizing plan.

1st. A large field thus irrigated would be a missance near a large city This is not so. 2nd. Troublesome paraxilis diseases would be thus increased. This does not seem likely. There is no enduce of it.

103 NulsANGES. Duisances: All those establishments having organic matter in decay, as part of their refuse, are liable to be, & often are, nuisances. Of this description are slaughter Muss houses, ghe factories, condle's soap facwhere hogs are kept, distilleries, due works, & burying-grounds in cities. Water Supply & Food Inspection: It is important that the sale of food should be superirsed by the authorities Bad food is often sold on a large scale. Such things require stringent provisions of police. A vocations: These sometimes require the intervention of authority especially as regards the tyranical treatment of children are in a worse condition treated worse than the slaves in the South. In France no child can be Laws. forced to work befor he is syrs old.

104 the lege to guit work on account of seth the disability was 40 years now, 45. + Panders - (So Dukson) untly to have mortality of their vocation lessent because ways unto be lessed also

STATE ALA Unhealthy Employments - (Page 94.) Those working in lead may get either lead colic, or lead palsy in the former LEAD there is shrinking of the abdomen The palsy affects the extensor muscles of the wrist, first. The preventives are washing the hands well before meals, avoiding the fumes of lead as much as possible, and if much exposed, taking dilute 503. Coloring wall paper with arsenie, ARSENIC. or even sleeping in a room so covered injures health: Some children play ing with a bayly-house, so covered whe affected by the arsenic One lody, in Lymbrugh Va silled. Dr. Laylor says that opthalmia & nervous diseases are caused by it so golored. Silvering minors with mercury. PHOSPHORUS. In making bucifer-matches, there is danger of phosphorus poisoning especially of the lower jaw en needle-grinding cotton spinning HEEDLE working in hair, brilles, Set fine

106. on account I an asthmatic disability was, a few years fine, 40 years. Now, by some improvements, whas been brought up to 45.

particles get into the air passages. In glass-blowing, the intense heat-& the interference with the normal act ion of the lungs, both contribute to short en life. The Of 1000 cotton-spinners, 18 died every year; 41 coal men; 54 wool, hair de. The average age at death, I flint matters is 19 years. With closent from the sauses intense bronchitis & villeers on the legs. In vulcanizing indig subble injury is produced by the sulphureted carbon employed. Head ache, vertigo, excitement of the nervous system, which may load to insanily or imbecility, are all effects of this. A glass screen with two holes for the arms should be used? by the absence of light & pure air* MINES. All sedentary employments are EMPROVIMENTS unhealthy-

A FACTORY DISEASE —A curious form of disease has appeared in some of the flax Minor Evils: — In half is prevalent amongst the mill-workers, I mean only this in the subjects of it believe that it is unainly caused by naving TURPENTINE you ask, 'How closely will the experience of the to stand, whilst at work, in the water which crops from the spinning frames. They neually get a knock upon one of their toes, which inflames the nail drops off, and an American physician coincide with this statement?' PHOTOGR While the surgeon of the National Military Asylum, 2 exquisitely painful ulceration, with reproduction of a deformed nail, follows. They Eastern Branch, 1868-70, there were under my care many cases of consumption, mostly from two are thrown out of work, and it is only by a to five years' standing. Night-sweat was a very severe operation and protracted treatment in hospital that they are finally cured. Last year, in the general hospital, out of thirteen hundred cases, we had thirty-eight cases of onychia; several, however, were relapses." This painful disease, it is said, occurs much more frequently in Ireland than in England, because in the Viels decrease. common symptom, and for its relief I learned to rely entirely on the oxide of zinc, three grains in pill at night, combined with a little hyoscyamus. WATCH MAKIN It seemed as nearly entitled to the name of specific as any medicine in the Pharmacopæia." than in England, because in the Irish flaxmills the men and girls work barefoot all HE ALENE CAMES LOND day, "with the water from the flyers drop-SELECT FORMULÆ. ping upon them." VACCIN COMPOUND ARSENICAL PAPER. - The following cinated, & 064 raccinated is transcribed from the Receipt Book of the Philadelphia Hospital: -1.10 vaccinated 8.42 of . . . grs. xcvj. Belladonna leaves . Hyoscyamus " Stramonium " grs. lxxx. n Medical Academy. Boiling water Potass. nit. grs. exx.
Potass. arsenit. grs. cccxx. revaccination, it Take thick bibulous paper; soak it in this solution, and allow to dry. When set on fire and the flame extinguished, this paper burns slowly without flame, and emits a dense smoke which may be inhaled for the relief of asthma, often with very marked benefit. It is also useful in chronic bronnot be revaccinated chitis. FOR EXCESSIVE PERSPIRATION OF HANDS OR lear; again before, 25th FEET. - A German pharmaceutical journal recommends the following : -Carbolic acid 4 parts. Gold is alightly oversold, and loaus are mad at 1-32:1-16 per day. The payment of the May coupons has a tendency to weaken the premium. At 10 A. M. the quotation was 135; 1 130; 12 M., 135%; 1 P. M., 135%; 2 P. M. 135%; 3 P. M., 135%; 4 P. M., 135%; 5 M. P. M. Burnt alum 200 parts. French chalk 50 parts. hin . 2 parts. Oil of lemon . Make a fine powder, to be applied to the hands and feet, or to be sprinkled inside of the gloves or As usual on steamer day, there were few one operations in foreign exchange; quotation ng roremain as sent yesterday. The Scotia takes out \$100,000 in speciet or reight.
The stock market at the earlier Boards was buoyant and active. Prices generally wer better, but after the regular Board, under salefbetter, but after the regular board, under sale to restiz; the leading descriptions yielded fraction. The market as yet has but feeb; routside" support dovernments are in stead demand for investment, particularly the new 166s and 7-30s. There being no quotations from London to-day, the business on foreign a count is limited.

MULTUM IN PARVO. — It would be difficult to condense medical information of great value into smaller compass than in the following extract from the Boston Medical and Surgical Journal:—

The following propositions are offered as matters of belief, and some of them as matters of record:

1st. Without vaccination, one death in ten from all causes would be the result of small-pox.

2d. Without vaccination, nineteen out of twenty would have small-pox.

3d. Without vaccination, sixty-seven per cent. of the cases of small-pox would be fatal.

4th. With vaccination, not two per cent. of the inhabitants will take small-pox.

5th. With vaccination, the percentage of deaths from small-pox is only about eight of the two per cent. who will take it.

6th. A larger percentage of those who have had small-pox will have the secondary disease than of those who have been vaccinated. That is to say, vaccinia is a better prevention of varioloid than small-pox is.

7th. Humanized virus is more likely to take than the original virus from the cow.

8th. Humanized virus, whether it takes or not, does not produce such severe constitutional symptoms as primary cow virus does.

9th. It is not proved that either humanized virus or primary cow virus is the better in its protective effects.

10th. There are certain individuals who do not seem susceptible of variola.

11th. There are certain individuals who do not seem susceptible of vaccination.

12th. The taking of small-pox after vaccination is no proof that a second vaccination would have succeeded.

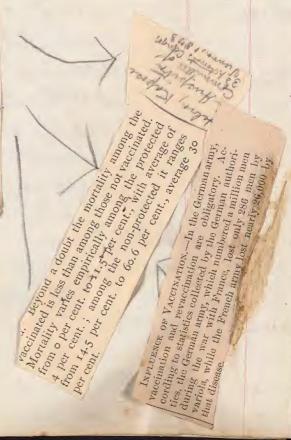
13th. A successful re-vaccination is no proof that the individual re-vaccinated would have taken small-pox.

Poisonous THREADS.-A French journal of hygiene states that a number of seamstresses have suffered from violent colie, in consequence of putting into their mouths the slik they use in sewing. This disease is atstributed to the practice of mixing the silk with a preparation of lead (the sulphate) so as to increase its weight. A chemical analysais of many different samples of sewing silk ras been made by Mr. Jones, of the Chemical Laboratory, Leadenball street, London, which resulted, in almost every case, in the detection of large quantities of acetate or sugar of lead. This admixture is even more dangerous than that of the sulphate, on account of the greater degree of solubility of the sugar of lead in the fluids of the stomach,

nce that between six and seven hundred dings have been put up, including a aber of elegant brick and granite stores. It noticing this fact the Philadelphia tetin takes occasion to sing the praises (ankee energy and pluck, and instances anta as another place that is indebted to m for its present Phænix-like proceed-But for Yankee energy and Dutch and h pluck Atlanta never would have had ashes to rise from."

PECULIAR SUIT.—At the present term to Circuit Court for Pittsvania county, inia, a suit has been commenced ast the town of Danville, for damages on ant of liquors destroyed by order of the or, about the time of the surrender of sarmy. The liquor was destroyed as a autionary measure to prevent straggling iers' who were passing through in great thers, from drinking to intoxication, in the event it was thought the town would a danger of mob violence.

AIAL.—The trial of Capt. William Grant burning the ship Young Mechanic while by his command, on her voyage from



ICI.

We Meal lower brand

oc?

Causes dissiness in some.

Les photographing, the examide of polassium the bichloride of mercury ary injurious. En watchmaking, copper causes nervous tremors & chills. Bress founders ague also Vaccination: - In a Yondon hospital, .35 of the unvaccinated, & 06 4 raccinated died. In Berlin 10 vaccinated 8.42 of the unvaccinated red. In the Belgian Medical Academy. of 2841 subjects of revaccination, it was sugcessful in proportion to the length of time. A person need not be revaccinated before his 45th year; again before 25th, Vaccination is a duty which should be enforced. There are different plans In France, 3 frances are given to everybody who brings a child to be vacginated (1859) In this city, officers collect the cases

Vital Statistics 37 500 Population of the World, 12 88 millions. Most populous regions: Egypt, China, England Marriages in Europe, 1 to 121 9 inhabitants " " W. S. 1 to 102 " " Births to each marriage - 4 Births to population, about 1 to 30 Sedes - 9362 females born, to 10000 males 9190 " die " " " Deaths to population, W.S. 1 to 45 Inevitable mortalely, 17 in 1000 annually Average age at death, the world over, 33 yrs. Longest lived - Judges Paupers Gentlemen Shortest- lived - Clerks Vaborers Yaborers Brakesmen) Thist-makers tived Dress makers Jemales, longest lived -Housekeepers Leachers Shoe-benders Day Workers.

of children who have not been vaccinated. It should be compulsory.

The subject of Yesture XXXVII.

VITAL Vital statistics is a very large subject. STATISTICS. It is also a difficult one, It is the most infantile department of hygiene. Three questions present themselves. What are vital statistics; what are they for; and, how are they to be got. Vital statistics are estimates of popu-WHAT lation, sex, age, births, sex of births, marriages, deaths, sex of deaths, sickness, STATISTICS. causes of sickness, Le. The system of life insurance depends on vital statistics. So does the the first distriction of districtions of districtions of districtions of districtions of districtions of districtions of the statistics of districtions of the statistics of the ual efforts alone will not suffice. Medical men have sworts to dourth out it. It must be done by municipal authority, by compulsory means. Authority has been very slow in doing this, on this state, iteras difficult to get a law fassed. Hardly anjukere, are statistics

112. J.B. I will not question on the figures V of this Ceture on Notal Statistics - unless 1 2 stone items designated as of special importance.

Odnitarland, 113. a The influence and usefulness of a medical ma do not depend altegether upon what he ma lifty do not depend integration, or physiology, or su know of materia medica, or physiology, or su They show that in that time, the average length of life has been doubled. All the figures which are given, are merely approximations. I relect for only. Source State of State Dietrich gives the population of the world as 12 88 millions of which 369 millions are Tongolian 190 African, 1 American, & 200 Malay. In Europe there are 89 to a sq. mile. Asia 32, Africa 14, America 4. (Euro) The most populous countries are TZOM Egypt, 1767 to a eg. league, China, and England 1457. France has 1062, Bus-POPULOUS COUNTRIES sia 161, Sweden & Norway 182, U.S. 58, and S. America. 21. London I what to 1220 squit; Pand 1 to 500 squit Philadelphia has more houses than any HOUSES. other city, on 100000 houses, 1870. Her tick of almost In wrope, there is I marriage to 121, inhabitants; in the 20. S. 1 to 102 In Europe the extremes are, Russia 1699 & France 1 to 134. The average number of births to a BIRTHSmarriage, is 4.

-A new estimate of the population of the globe, based on the very latest returns, has just been published by Gotha statisticians, who make the sum total to be 1,377,000,000 souls. — The

1812.

J.B. I will not question on the figures V.

Attacked Statistics - unless
15 2 of the items designated as of special importance.

F

fifty years old Mast in Enwa Vilingland.

They show that in that time, the

average length of life has her. average length of life has been doubled. All the figures which are given, are merely approximations. I when many. Dietrick gives the population of the world as 12 88 millions of which 369 millions are Caucasian, 552 Mongolian 190 African, 1 American, 8 200 Malay. In Europe there are 89 to a sq. mile. Asia 32, Africa 14, America 4. (Surot) The most populous countries are MOST Egypt, 1767 to a eg. league, China, and England 1457. France has 1062, Bus-POPULOUS COUNTRIES sia 161, Sweden & Norway 182, U.S., 58, and S. America. 21. London I what to 1220 spift; Pand 1 to 500 5/1. Thiladelphia has more houses thankany other aity, our 100000 houses, 1870. Her tire walnut In wrope, there is I marriage to MARRIAGES. 121, inhabitants; in the 20. S. 1 to 102 In Europe the extremes are, Kussia 1 to 99 & France 1 to 134. The average number of births to a BURTHS. marriage, is 4.

114. Jains forthe the his Cestimate.

The number is greatest in prosperity varying with the supply of grain. Let the educated & wealthy have smaller families than the poor. It may be that the development of the nervous system is unfavorable to fertility. Ir N. allens "physiological law of increase. ? PROPORTION BIRTHS Births to population: - Tussia in 23, Austria I in 26, Prussia 27, Congland 31, TO TO POPULATION d'rance 29. (No. S. 1 in 35 Esupposed to be an Howevery) to the population increases in a geometrical ratio; 2-4-8- mens of hills to so the population of the to. I doubted POUBLE in 25 yrs; quadrupled in 50 years. MATION Independently of immigration, it 25, has increased faster than that of any other country. This is a contradiction of the assertion that there is a degeneration of race in America Bondin says that Belgium dou-bles its population in 41 years, Hol-ENGLAND land in 42, England in 78.

A System of Conscription, Large stanting army has been literally numous to France, Dring Commen was surreors noted the marker different a endurance were would toperations, between English Strend Soldiers; the Trend have the quentist relative mortality under enjuries, the averent trench phypique tous no doubs deperante, - and with it the morale, time the first Mapoleon e wars. (Physique bronsle not one, but much connected) - 3 causes of Detectoration there have acter for many years; 1., the same coluntary celibacy of a numerous Roman Catholic preethood & Sisterlood; E. the enforced celitary, of all regular soldiers; 3: the come prouter of mothers Theat promotive causes of European wars, are now proved by the metance of house at least, to be otherwise and every way detramental to the enterests of nations.

117. Germany in 79, Russia in 99, and Frange in 138. And the was beforthe wary 1870-74. There are more males than female born to There is also an excess I male EXCESS OF MALE BIRTHS. deaths, I'm the 1st. year more males die. In the 2nd. the proportion is equal. 14-15 more females; 21-26 more males; 31-45 more females; over 45 more males. OF OPORTION MALES Proportion of males to females: - In New England, females are in excess; FEMALES. in lotah also. In California not long ago, there were 19 females to 100 males. Connecticut is intermediate. Deaths to population: - In hance, POPULATION. 1 to 45, to 1 to 40; Mussia 1 in 28, Austria 1 in 33, Prussia 1 in 38, England 1 in 45, Massachusetts I'm 47, Co. S. lin 45. In France, the mean duration of life is 34 years, It has gained 5 years in 60 In the manufacturing districts of France, 25 years is the mean duration. After great wars and pestilences,

Since the war, See Home Book)

Francisco (before reported deceto) volumed at sea in lat 2 N, lon 133 5 W, on the 3d of may. One of the ship's boats, containing twelve of the crew, two passengers, named Bergmson, and the captain, arrived at the Sandwich Islands on the 13th of June, as tate of starvation, having been exposed in the long boat 43 days. Two other boats, with about twenty persons, in charge of the first and second mates, continued in company until the nineteenth day, and are yet to be heard from. The stap had a targe quantity of kerosene on board, and it is supposed the fire originated from it or near it, as the vessel was consumed so fast that they could scarcely save to be farieful for the first of the unusual number of birth ss of male births sband is a dozen years wifes the children are GOODS FOR THE LADIES. males vice versa. MERINO GAUZE ER-GARMENTS hyres, foreigners have more BUENOS AYRES male children, & natives more female. In 1863 Dr. Snow of Providence gave for New York, a mortality of 1 in \$5,1 Boston I in 41.2, Newark 43.5, Providence 45 Hartford 54.8, Jondon 45, Liverfrool 44, Philadelphia Som 1 in 44 to 1 in 5%. his her till little mortality in New York is great and The mortality of New Orleans, of fearful, licians gay our is as low as that of any other city Age at death: - Six per cent die in the first-year. One fourth diex under AGE In England Che average age at-death is 29. Marchester 20, Twerpool 17, The world Longe a the country than in cities.

Since the war,

STATURE OF AMERICAN SOLDIERS. At the session of the American Academy of Science the other day, a paper was read by Dr. B. A. Gould, which, not being upon so abstruce a subject as is usually discussed by the majority of the savans, is likely to interest the public. It was upon "the stature of the American soldiers," and was founded upon the measurement of one million of soldiers-quite sufficient for any one to found a number of very pretty themes upon. Those measurements are not taken, at least not preserved, in the first months of the war. It was not until recruiting had become a regular thing that attention was paid to the necessity of preserving the Government records of the height of soldiers. From the results of the records it is shown that

See Home Book!

119. there is an unusual number of birth and an excess of male births. When the hysband is a dozen years older than the wife, the children are generally all males vice versa. In Buenos Ayres, foreigners have more male children, & natives more female In 1863 Dr. Snow of Providence gave for New York, a mortality of 1 in \$ 5,1 Boston I in 41.2, Newark 43.5, Providence 45 Hartford 54.8, Jondon 45, Twentrool 44, Philadelphia Som 1 in 44 to 1 in 5%. In the mortality in New York is great and I he mortality of New Orleans, as fearful, AGE Ageat death: Six per cent die in AGE In England the average age at-death is 29. Manchester 20, Viverpool 17, The world over 33 Love - the construction in cities

120 Morking-women, in all avocations, have harder times than men; they receive less wages even for the Dame Kind prostions. The differences between their remuneration for Cabor, skilled Vernskilled, and that of men, is too great for Gustice

Anglo Brazilian Fimos, 1873 Phil ma Timo april 12, 73) asserts that at a recor course in Brazil, there was found living at Cape this, Jose Martino Continho, 178 years old in 1872. Married 6 times, had 42 children, 123 grandchildren 86 gr. grand ch., 23 gr. grand ch. & 20 childred It tother; 294 descendants Offrisher his left time, Doubt, of course, is the number of his own years; but that to not impossible. Sept. 19# 1873, Christian Union quotes from Lowerthe Courses-Sound account of a physician who had just visited ... Lottere Inov, a black man living at Ethan Tenneser 124 years old; says he was 25 whath Revolutions was broke out.

122.

123 Instances of Old Age: - Hippoe-ACK. rates & Gaten, 100, St. Anthony 105 St. Jerome 100. Tilian & Cornard, near ly 100, A. Francis 140, Jas. Javorence 143, Thos. Winslow, 16, for Offingham 144. Elande Jacob 126, Jos. Kreele Ca great In France in 1842, therewere 46 over 100. Causes of death: - War & accident DEATH. take of many hundreds of thousands in motion wars. PHTHISIS. Phthisis takes, the lead In England Mayland 20000 wood beath u. s. center of 1880. except that all fevers together would be more, 2000 annually in Eurland from typhoid alone. Diseases of children are worse in the north, yet they are mostin summer. Dr. Jaris says that of 1000 deaths in Massachusetts, 314 werefrom the beng 137 digestive organs, 78 brain, 54 old age. In England oghthisis, to lighties to small pox; Ththisis & preumonia are commoner tatities 1 Disease

125 this happens-he is for ever afterwards prohibited from practising his profession-a regulation that might, perhaps, prove advantageous in other countries. Visits are never charged; they simply charge for the medicine used, and it in cities the is always on trust until the patient gets betterconditions not very favorable for large incomes In this cil and great wealth .- Dr. Wiley, Cinn. Lancet and naj. Observer. is consumpl A Fatal Epidemic in the Island of Mauritius. uu. The Overland Commercial Gazette, a paper monia, convi printed at Mauritius, gives a full account of a disease raging on that Island, and especially at phus & lightor Port Louis. ref. This disease is a non-contagious fever, yet it is epidemic, and has assumed a most virulent form. Small-pol. Upwards of six thousand persons died in March, and the first half of April the mortality of the island reached upward of five thousand more. The smalle 00 Port Louis alone, during this latter period, lost two thousand eight hundred and seventy-nine, 'nd in some ru out of a population of eighty thousand. The AMOUNY disease seems to be confined mainly to the north-Amount of west part of the island, and the number of deaths up to the 18th of April, is estimated at 13,564 in DISFASE portant to the aggregate. 100 The cause of the disease is thought to be the filthy and crowded state of affected districts-at sick sofuh least, it is much aggravated by this, since those plantations where any care has been taken have been nearly free from the epidemic. Medicine is neglect this. also exceedingly scarce, and on the 15th of April mining was nublicly sold, at £12 an ounce. The In Marchester there is I death for 28 cases of sickness. En our grony 1 for 6 cases. The greater the movtality the greater the amount of sickeless. new notes - Statistics of Disease. SICK We now take up the subject 800M. Hygiene of the Sick Room: - The frac dice of medicine is getting to be more and more hygienic. The elements of importance in the sick room, are light, sound, clothing, air, food, & mental management. Influence of Condensation of Population on Life.

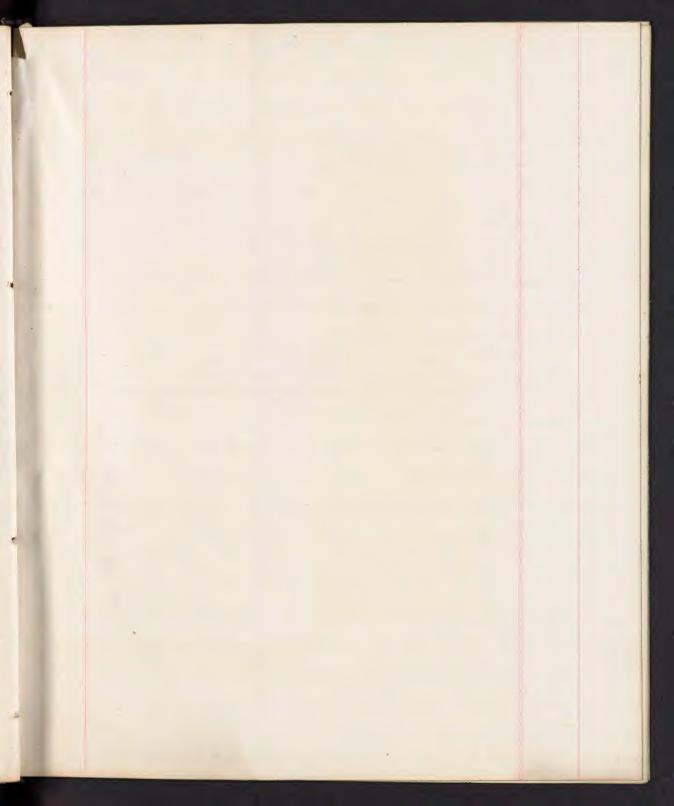
The Boston correspondent of the New York Evening Post, says that Dr. Edward Jarvis, of Dorchester, recently read a paper on the effect of Condensation of Population on Life, from which it appears that it is extremely rare to find a citizen of Paris with many generations of Parisians among his progenitors. London needs ten thousand recruits from the country every year to keep its numbers good. There is a much larger proportion of deaths by zymotic and nervous diseases, in the city than in the country, while the proportion of deaths by old age is thirty-seven per cent. larger than in the city. The mortality of children is much larger in cities than in the country-the excess of deaths of children under five years in English towns and cities from 1851 to 1860, being one hundred and fifty-two per cent. over the population prevailing in the country. Much of this excessive mortality is attributable to destitution and privation; the dangerous occupations and protracted labors of many of the inhabitants of cities; the compactness, narrowness and crookedness of the streets, leaving little chance for the circulation of air; and the extreme mental exertion and undue expenditure of the vital powers by the better classes. In so far as the causes could be removed the rate of mortality will be lessened. Sanitary improvements in nineteen towns and cities of Great Britain had reduced the rate of mortality from twenty-eight in one thousand to twenty-one in one thousand. In Liverpool the decrease was thirty per cent.

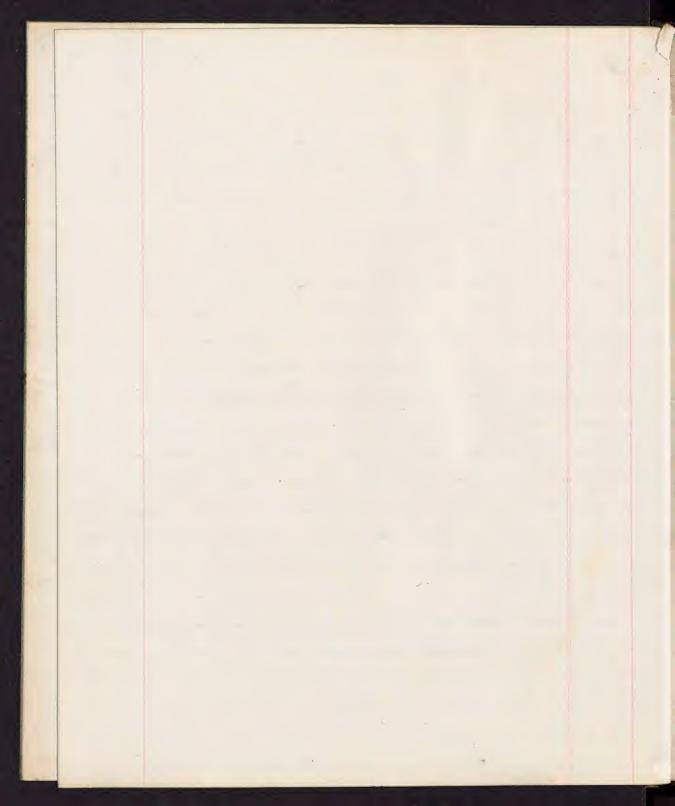
tatities Disease

125 in cities than in the country In this city the order of frequency. is consumption, searlet fever, preumonia, convulsions, marasmus, typhus & typhotod, diarrhoad dipentery.
Small-pox. I.B. x 15
The smallest mortality is 17 in 1000 in some rural districts of England. Amount of disease: - It is im-DISFASE portant to know how many are sick sof what sick. Physicians neglect this. In Marchester there is I death for es cases of sickness. En our grony 1 for 6 cases. The greater the movsickeless removed the amount of statistics of Disease. SICK We now take up the subject of 800M. Hyguene of the Sick Room: - The pracmore and more hygienic. The elements of importance in the sick room, are light, sound, clothing, air, food. I mental management. 126, see See Feel

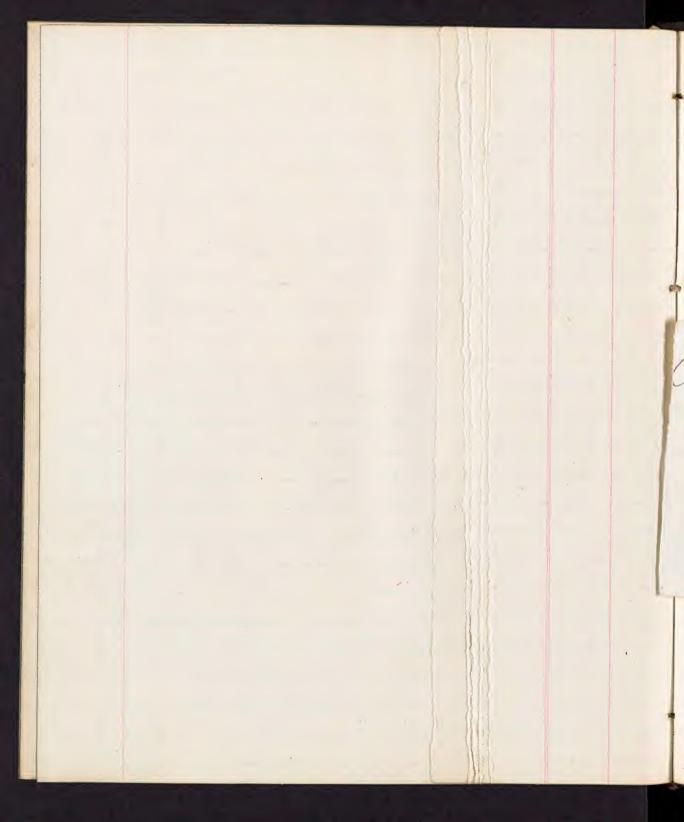
some inflammatory Pight: - In all acute diseases, it must be excluded. In chronic diseases. it must not In choosing a consumptive's room, it should be sunny & cheerful. Sound: - An irritable brain must not be jarred It is barbarous to stamp into a sick room. The physician must have oregard to the state of the patient. Such slittle things materially affect a physicians success-Clothing: - It must be adapted to the needs of the patient. It must be changed frequently to allow of transpiration. Nurses are often afraid to change a patient's clothing because of the colds fatigue, some times this is a very good excuse but when possible it is best to change. Air: - It is necessary for the Rick. A gentleman who had tiffhoid preu-monja could not suffer the windows to be shut, although it was so cold

that a large fire had to be kept in the room. Good: - Shis has been treated of already. Mental management: - judgment is necessary in attending the sick. Lonetimes a person, in the hearing of the patient, well anxiously ask the physician "now longwill he live?" Such things are out of place. It generally has a bad effect. Sometimes however it revives a patent A gentleman overheard his physicians dalking of his death. One said "I would like to be present at the post-morten". This iname diately revived him. Reloveries often happen mirac-ulously, so that we should not say that a person will die, until there is no hope left. For moval reasons we cannot disquise the facts often. We must be careful to avoid









C. D. Mond 141 Flo. bet, 39 las of Natur

